

---

**COMBINED DECLARATION AND POWER OF ATTORNEY**

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION OR C-I-P)

---

As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**

This declaration is of the following type:

(check one applicable item below)

- original.
- design.
- supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

- national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

- divisional.
- continuation.
- continuation-in-part (C-I-P).

**INVENTORSHIP IDENTIFICATION**

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

---

A TELECOMMUNICATIONS SYSTEM FOR PROVIDING BOTH NARROWBAND AND BROADBAND SERVICES TO SUBSCRIBERS; SUBSCRIBER EQUIPMENT; A SHELF THEREFOR; A REPLACEABLE LOWPASS FILTER UNIT; LINE TERMINATION EQUIPMENT; NETWORK TERMINATION EQUIPMENT; AND A TELECOMMUNICATIONS RACK WITH A PLURALITY OF SHELVES HAVING A REDUNDANCY FEATURE

(Declaration and Power of Attorney [1-1]—page 1 of 7)

## SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

- (a)  is attached hereto.

NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed;  
or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

- (b)  was filed on July 10, 1997, as  Serial No. 08 /891,145  
or  \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.

NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g.,08/123,456);

"(2) name of inventor(s), serial number and filing date;

"(3) name of inventor(s) and attorney docket number which was on the specification as filed;

"(4) name of inventor(s), title which was on the specification as filed and filing date;

"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g.,08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60).

- (c)  was described and claimed in PCT International Application No. \_\_\_\_\_, filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_ (if any).

## **ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

*(also check the following items, if desired)*

- and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
- in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

## **PRIORITY CLAIM (35 U.S.C. § 119(a)–(d))**

I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

*(complete (d) or (e))*

- (d)  no such applications have been filed.
- (e)  such applications have been filed as follows.

*NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.*

**PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION  
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>
			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>
			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>
			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>
			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)  
(34 U.S.C. § 119(e))**

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER

FILING DATE

\_\_\_\_\_ / \_\_\_\_\_  
\_\_\_\_\_ / \_\_\_\_\_  
\_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_ / \_\_\_\_\_  
\_\_\_\_\_ / \_\_\_\_\_  
\_\_\_\_\_ / \_\_\_\_\_

**CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S)  
UNDER 35 U.S.C. 120**

- The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART (C-I-P) APPLICATION.

**ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

---

---

---

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

**POWER OF ATTORNEY**

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

*(list name and registration number)*

Robert H. Ware, Reg. No. 18,179; Alfred A. Fressola, Reg. No. 27,550;  
K. Bradford Adolphson, Reg. No. 30,927; Francis J. Maguire, Reg. No. 31,391;  
Peter H. Van Winkle, Reg. No. 36,039; Garold E. Bramblett, Reg. No. 19,119;  
James R. Frederick, Reg. No. 25,865; William J. Barber, Reg. No. 32,720;  
R. Kent Roberts, Reg. No. 40,786; James A. Retter, Reg. No. 41,266;  
*(check the following item, if applicable)* Milton M. Oliver, Reg. No. 28,333

- I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.
- Attached, as part of this declaration and power of attorney, is the authorization of the above-named practitioner(s) to accept and follow instructions from my representative(s).

---

SEND CORRESPONDENCE TO  
Francis J. Maguire

Address  
Ware, Fressola, Van Der Sluys  
& Adolphson LLP  
755 Main Street, P.O. Box 224  
Monroe, Connecticut 06468

Customer Number 004955

---

DIRECT TELEPHONE CALLS TO:  
(Name and telephone number)

Francis J. Maguire  
(203) 261-1234

## DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

### Full name of sole or first inventor

Richard M. Czerwiec  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) (FAMILY (OR LAST NAME))  
Inventor's signature *Richard M. Czerwiec*  
Date Nov. 4, 1997 Country of Citizenship U.S.A.  
Residence Raleigh, North Carolina  
Post Office Address 1812 Bonnibee Court  
Raleigh, North Carolina 27612

### Full name of second joint inventor, if any

Joseph E. Sutherland  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) (FAMILY (OR LAST NAME))  
Inventor's signature *Joseph E. Sutherland*  
Date Nov. 4, 1997 Country of Citizenship U.S.A.  
Residence Raleigh, North Carolina  
Post Office Address 5405 Thayer Drive  
Raleigh, North Carolina 27612

### Full name of third joint inventor, if any

Peter M.L. Schepers  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) (FAMILY (OR LAST NAME))  
Inventor's signature *Peter Mathias Leonard Schepers*  
Date Nov. 4, 1997 Country of Citizenship Belgium  
Residence Bornem, Belgium  
Post Office Address Kloosterstraat 53  
2880 Bornem, Belgium

*(check proper box(es) for any of the following added page(s)  
that form a part of this declaration)*

- Signature** for fourth and subsequent joint inventors. *Number of pages added  
six (6)*

\* \* \*

- Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added \_\_\_\_\_*

\* \* \*

- Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added \_\_\_\_\_*

\* \* \*

- Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

\* \* \*

- Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

*Number of pages added \_\_\_\_\_*

\* \* \*

- Authorization of practitioner(s) to accept and follow instructions from representative.

\* \* \*

*(if no further pages form a part of this Declaration,  
then end this Declaration with this page and check the following item)*

- This declaration ends with this page.

**Practitioner's Docket No.** 907-153

**ADDED PAGE TO COMBINED DECLARATION AND POWER OF  
ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS**

Full name of fourth joint inventor, if any

Geert \_\_\_\_\_ A.E. \_\_\_\_\_ Van Wonteghem \_\_\_\_\_  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature Geert Arthur Edvin van Wonteghem

Date Jan 22, 1998 Country of Citizenship Belgium

Residence Eeklo, Belgium

Post Office Address Stationsstraat 18  
B9900 Eeklo, Belgium

Full name of fifth joint inventor, if any

Marlin \_\_\_\_\_ V. \_\_\_\_\_ Simmering \_\_\_\_\_  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature Marlin Simmering

Date Nov. 4, 1997 Country of Citizenship U.S.A.

Residence Clayton, North Carolina

Post Office Address 120 Two Does Lane  
Clayton, North Carolina 27520

Full name of sixth joint inventor, if any

Eduard \_\_\_\_\_ C.M. \_\_\_\_\_ Boeykens \_\_\_\_\_  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature Eduard Christiaan Maria Boeykens

Date Jan 22, 1998 Country of Citizenship Belgium

Residence Bornem, Belgium

Post Office Address Victor De Witstraat 49  
2880 Bornem, Belgium

Practitioner's Docket No. 907-153

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of <sup>seventh</sup> joint inventor, if any

Chris Van Der Auwera

GIVEN NAME

MIDDLE INITIAL OR NAME

FAMILY (OR LAST NAME)

Inventor's signature Chris Alain William van der Auwera

Date Jan. 22, 1998 Country of Citizenship Belgium

Residence Mechelen, Belgium

Post Office Address Boomgaardstraat 17  
B-2800 Mechelen, Belgium

Full name of <sup>eighth</sup> joint inventor, if any

Peter Van Rompu

GIVEN NAME

MIDDLE INITIAL OR NAME

FAMILY (OR LAST NAME)

Inventor's signature Peter Alain Richard Van Rompu

Date Jan. 22, 1998 Country of Citizenship Belgium

Residence Puurs, Belgium

Post Office Address Donkstraat 85A  
B-2870 Puurs, Belgium

Full name of <sup>ninth</sup> joint inventor, if any

Kurt Pynaert

GIVEN NAME

MIDDLE INITIAL OR NAME

FAMILY (OR LAST NAME)

Inventor's signature Kurt Pynaert

Date Jan. 22, 1998 Country of Citizenship Belgium

Residence Oost-Vlaanderen, Belgium

Post Office Address Kerkwegel 12b, 9230 Wetteren  
Oost-Vlaanderen, Belgium

Practitioner's Docket No. 907-153

ADDED PAGE TO COMBINED DECLARATION AND POWER OF  
ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of <sup>tenth</sup> joint inventor, if any

Daniel A.C. Verly  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature Daniel Alain Cornelius Verly

Date July 22 / 98 Country of Citizenship Belgium

Residence St. Niklaas, Belgium

Post Office Address Th. Ellequierslaan, 38  
9100 St. Niklaas, Belgium

Full name of <sup>eleventh</sup> joint inventor, if any

Gilbert A.F. Van Campenhout  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature Gilbert Alphonse François Van Campenhout

Date Jan 22 / 98 Country of Citizenship Belgium

Residence Hoboken, Belgium

Post Office Address Lissabonstraat 14  
2660 Hoboken, Belgium

Full name of <sup>twelfth</sup> joint inventor, if any

Richard H. Bailey  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature Richard H. Bailey

Date 11-4-97 Country of Citizenship U.S.A.

Residence Raleigh, North Carolina

Post Office Address 7822 Vauxhill Drive  
Raleigh, North Carolina 27615

**Practitioner's Docket No.** 907-153

**ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS**

Full name of thirteenth joint inventor, if any  
Robert N.L. Peschi  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)  
  
Inventor's signature Robert N.L. Peschi  
Date July 31, 1998 Country of Citizenship Belgium  
Residence Brussels, Belgium  
Post Office Address Rue Aime Smekens 71/2  
B-1030 Brussels, Belgium

Full name of fourteenth joint inventor, if any  
Dirk M.J. Van Aken  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)  
  
Inventor's signature Dirk M.J. Van Aken  
Date July 31, 1998 Country of Citizenship Belgium  
Residence Brussels, Belgium  
Post Office Address Johann Sebastian Bachlaan No: 12, Mailbox: 2  
B-1083 Brussels, Belgium

Full name of fifteenth joint inventor, if any  
Emmanuel F. Borowski  
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)  
  
Inventor's signature Emmanuel F. Borowski  
Date Jan 12, 1998 Country of Citizenship Belgium  
Residence Antwerp, Belgium  
Post Office Address Schommenstraat 17a, 2250 Olen  
Antwerp, Belgium

Practitioner's Docket No. 907-153

ADDED PAGE TO COMBINED DECLARATION AND POWER OF  
ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of sixteenth joint inventor, if any

Peter	P.F.	Reusens
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)
Inventor's signature <u>Peter Paul Hans Reusens</u>		
Date <u>Jan. 22, 1998</u>	Country of Citizenship <u>Belgium</u>	
Residence <u>Laarne, Belgium</u>		
Post Office Address <u>Warande 121</u>		
B-9270 Laarne, Belgium		

Full name of seventeenth joint inventor, if any

Herman	L.R.	Verbueken
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)
Inventor's signature <u>Herman Leo Karelina Verbueken</u>		
Date <u>Jan. 22, 1998</u>	Country of Citizenship <u>Belgium</u>	
Residence <u>Borgerhout, Belgium</u>		
Post Office Address <u>Jules Van Beylenstraat 21</u>		
B-2140 Borgerhout, Belgium		

Full name of eighteenth joint inventor, if any

Frank		Ryckebusch
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)
Inventor's signature <u>Frank Ryckebusch</u>		
Date <u>Jan. 22, 1998</u>	Country of Citizenship <u>Belgium</u>	
Residence <u>Antwerpen, Belgium</u>		
Post Office Address <u>Oudstrijderslei 40</u>		
2180 Antwerpen, Belgium		

Practitioner's Docket No. 907-153

ADDED PAGE TO COMBINED DECLARATION AND POWER OF  
ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of nineteenth joint inventor, if any

Koen  
GIVEN NAME

A.G.  
MIDDLE INITIAL OR NAME

De Wulf  
FAMILY (OR LAST NAME)

Inventor's signature Koen Andriusse

Date Jan. 22, 1998 Country of Citizenship Belgium

Residence Steenokkerzeel, Belgium

Post Office Address Breughelstraat 5

1820 Steenokkerzeel, Belgium

Full name of joint inventor, if any

GIVEN NAME

MIDDLE INITIAL OR NAME

FAMILY (OR LAST NAME)

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_ Country of Citizenship \_\_\_\_\_

Residence \_\_\_\_\_

Post Office Address \_\_\_\_\_

Full name of joint inventor, if any

GIVEN NAME

MIDDLE INITIAL OR NAME

FAMILY (OR LAST NAME)

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_ Country of Citizenship \_\_\_\_\_

Residence \_\_\_\_\_

Post Office Address \_\_\_\_\_

ASSIGNMENT AND AGREEMENT

FOR VALUE RECEIVED, WE, RICHARD M. CZERWIEC, a citizen of the United States of America and residing at 1812 Bonnibee Court, Raleigh, North Carolina 27612; JOSEPH E. SUTHERLAND, a citizen of the United States of America and residing at 5405 Thayer Drive, Raleigh, North Carolina 27612; PETER M.L. SCHEPERS, a citizen of Belgium and residing at Kloosterstraat 53, 2880 Bornem, Belgium; GEERT A.E. VAN WONTERGHEM, a citizen of Belgium and residing at Stationsstraat 18, B9900 Eeklo, Belgium; MARLIN V. SIMMERING, a citizen of the United States of America and residing at 120 Two Does Lane, Clayton, North Carolina 27520; EDUARD C.M. BOEKENS, a citizen of Belgium and residing at Victor De Witstraat 49, 2880 Bornem, Belgium; CHRIS VAN DER AUWERA, a citizen of Belgium and residing at Boomgaardstraat 17, B-2800 Mechelen, Belgium; PETER A.R. VAN ROMPU, a citizen of Belgium and residing at Donkstraat 85A, B-2870 Puurs, Belgium; KURT PYNAERT, a citizen of Belgium and residing at Kerkwegel 12b, 9230 Wetteren, Oost-Vlaanderen, Belgium; DANIEL A.C. VERLY, a citizen of Belgium and residing at Th. Ellegierslaan, 38, 9100 St. Niklaas, Belgium; GILBERT A.F. VAN CAMPENHOUT, a citizen of Belgium and residing at Lissabonstraat 14, 2660 Hoboken, Belgium; RICHARD H. BAILEY, a citizen of the United States of America and residing at 7822 Vauxhill Drive, Raleigh, North Carolina 27615; ROBERT N.L. PESCHI, a citizen of Belgium and residing at Rue Aime Smekens 71/2, B-1030 Brussels, Belgium; DIRK M.J. VAN AKEN, a citizen of Belgium and residing at Johann Sebastian Bachlaan No: 12 Mailbox: 2, B-1083 Brussels, Belgium; EMMANUEL F. BOROWSKI, a citizen of Belgium and residing at Schommenstraat 17a, 2250 Olen, Antwerp, Belgium ; PETER P.F. REUSENS, a citizen of Belgium and residing at Warande 121, B-9270 Laarne, Belgium; HERMAN L.R. VERBUEKEN, a citizen of Belgium and residing at Jules Van Beylenstraat 21, B-2140 Borgerhout, Belgium; FRANK RYCKEBUSCH, a citizen of Belgium

and residing at Oudstrijderslei 40, 2180 Antwerpen, Belgium; and KOEN A.G. DE WULF, a citizen of Belgium and residing at Breughelstraat 5, 1820 Steenokkerzeel, Belgium, hereby sell, assign and transfer to ALCATEL ALSTHOM COMPAGNIE GÉNÉRALE D'ELECTRICITÉ, a corporation duly organized and existing under the laws of France, and having a principal place of business at 54, rue La Boétie, 75008 Paris, France, as assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to improvements in A TELECOMMUNICATIONS SYSTEM FOR PROVIDING BOTH NARROWBAND AND BROADBAND SERVICES TO SUBSCRIBERS; SUBSCRIBER EQUIPMENT; A SHELF THEREFOR; A REPLACEABLE LOWPASS FILTER UNIT; LINE TERMINATION EQUIPMENT; NETWORK TERMINATION EQUIPMENT; AND A TELECOMMUNICATIONS RACK WITH A PLURALITY OF SHELVES HAVING A REDUNDANCY FEATURE, which is described in an application for Letters Patent of the United States, Serial No. 08/891,145, filed July 10, 1997; and all the rights and privileges under any and all Letters Patent that may be granted therefor.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and

907-153  
08/891,145

claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

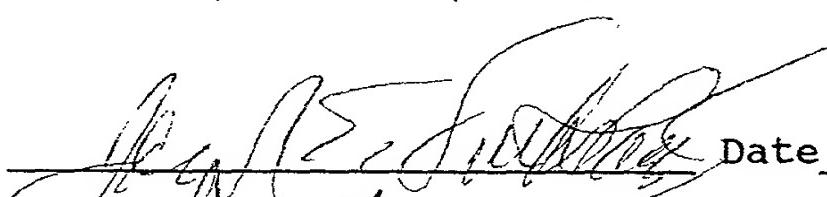
We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

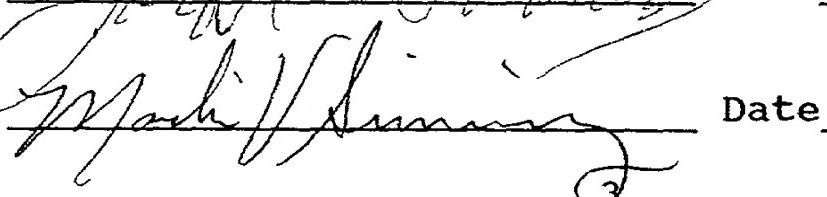
We covenant with said assignee, its successors and assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at Raleigh, NC this 4th  
day of November, 1997.

  
Richard M. Czerwiec

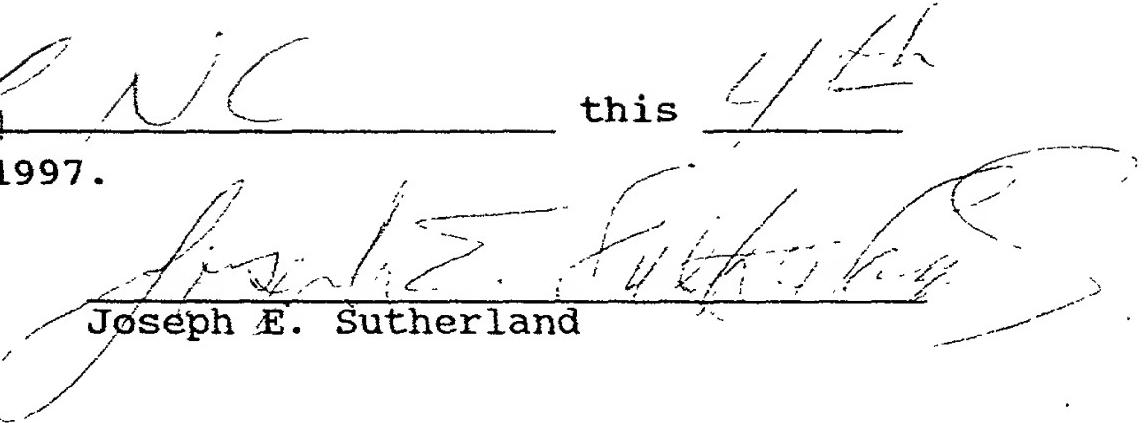
Signed in our presence and acknowledged to be an assignment of the application (invention) herein above referred to.

Witness  Date Nov. 4, 1997

Witness  Date Nov. 4, 1997

907-153  
08/891,145

Signed at Kaleigh NC this 4th  
day of November, 1997.

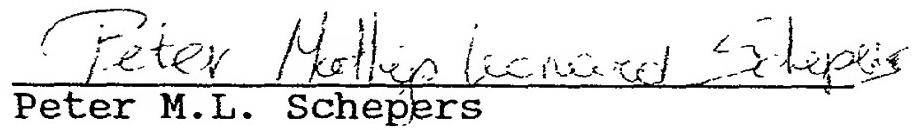
  
Joseph E. Sutherland

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Ronald M. Sander Date Nov. 4, 1997

Witness Mark J. Hinings Date Nov 4, 1997

Signed at Antwerp this 22th  
day of January, 1998.

  
Peter M.L. Schepers

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Gert Frans Stijn van Werven Date Jan.22, 1998

Witness Edward Christian Maria Poeykens Date Jan.22, 1998

907-153  
08/891,145

Signed at Antwerp this 22nd  
day of January, 1998.

Geert Arthur Edith Van Wonteghem  
Geert A.E. Van Wonteghem

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Edouard Christiaan Maria Date Jan. 22, 1998  
Boeykens

Witness Peter Methys Leonard Schepers Date Jan. 22, 1998

Signed at Raleigh NC this 4th  
day of Nov, 1997.

Marlin V. Simmering  
Marlin V. Simmering

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Key L. Smith Date Nov. 4, 1997

Witness Robert L. Smith Date Nov. 4, 1997

907-153  
08/891,145

Signed at Antwerp this 22nd  
day of January, 1993.

Eduard Christiaan Maria Boeykens  
Eduard C.M. Boeykens

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Gert Artine Edith ten Wentegehem Date Jan.22,1998

Witness Emmanuel Tomszynski Date Jan.22,1998

Signed at Antwerp this 22nd  
day of January, 1998.

Chris Van Der Auwera  
Chris Van Der Auwera

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Rita Maria Victor Kestemont Date Jan.22,1998

Witness Rita Maria Victor Kestemont Date Jan.22,1998

907-153  
08/891,145

Signed at Antwerp this 22nd  
day of January, 1998.

Peter A.R. Van Rompu  
Peter A.R. Van Rompu

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Houbrechts Christian Marie Adelin Date Jan.22,1998

Witness Heikens Heinz Meindert Date Jan.22,1998

Signed at Antwerp this 22nd  
day of January, 1998.

Kurt Pynaert  
Kurt Pynaert

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Iwas Axel Ivo Michel Date Jan.22,1998

Witness Tanneberger Monique Carda Joanna Date Jan.22,1998

907-153  
08/891,145

Signed at Antwerp this 22nd  
day of January, 1998.

Daniel A.C. Verly  
Daniel A.C. Verly

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Gilbert A.F. Van Campenhout Date Jan.22,1998

Witness Koen Ambroise Godelieve De Wulf Date Jan.22,1998

Signed at Antwerp this 22nd  
day of January, 1998.

Gilbert A.F. Van Campenhout  
Gilbert A.F. Van Campenhout

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Emmanuel Frans Borsens Date Jan.22,1998

Witness Huistof Suda Marcel Moesen Date Jan.22,1998

907-153  
08/891,145

Signed at Raleigh, N.C. this 4th  
day of November, 1997.

Richard H. Bailey  
Richard H. Bailey

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Jay E. Salter Date Nov. 4, 1997

Witness Robert M. Zemke Date Nov. 4, 1997

Signed at Antwerp this 22nd  
day of January, 1998.

Robert N.L. Peschi

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Caroline Cornelie René Heyedrich Date Jan.22,1998

Witness Caroline Yvonne Seydel Date Jan.22,1998

907-153  
08/891,145

Signed at Antwerp this 22nd  
day of January, 1998.

Dirk M.J. Van Aken

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Jeanne Anne Marie Vandenhove Date Jan. 22, 1998

Witness Giselle Marie Thérèse Harmon Date Jan. 22, 1998

Signed at Antwerp this 22nd  
day of January, 1998.

Emmanuel F. Borowski  
Emmanuel F. Borowski

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Pauline Léonie Campeau Date Jan. 22, 1998

Witness Gilbert Alain François Van Campenhaege Date Jan. 22, 1998

907-153  
08/891,145

Signed at Antwerp this 22nd  
day of Antwerp, 1998.

Peter Paul Frans Reusens  
Peter P.F. Reusens

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Herman L.R. Verbueken Date Jan. 22, 1998

Witness Frank Ryckebosch Date Jan. 22, 1998

Signed at Antwerp this 22nd  
day of Antwerp, 1998.

Herman L.R. Verbueken  
Herman L.R. Verbueken

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Peter Paul Frans Reusens Date Jan. 22, 1998

Witness Jeanine Janssen Date Jan. 22, 1998

907-153  
08/891,145

Signed at Antwerp this 22nd  
day of January, 1998.

Frank Ryckebusch  
Frank Ryckebusch

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Peter Paul Frans Reusens Date Jan.22,1998

Witness Herman Leo Rosalia Verhaege Date Jan.22,1998

Signed at Antwerp this 22nd  
day of January, 1998.

Koen A.G. De Wulf  
Koen A.G. De Wulf

Signed in our presence and acknowledged to be an assignment of  
the application (invention) herein above referred to.

Witness Dominique Van Den Bosch Date Jan.22,1998

Witness Gilbert Alfons François Van Campenhout Date Jan.22,1998

Assignors 08/891,145 (907-153)

Richard M. Czerwiec  
Joseph E. SUTHERLAND  
Peter M. L. SCHEPERS  
Geert A.E. VAN WONTERGHEM  
Marlin V. SIMMERING  
Eduard C.M. BOEKENS  
Chris VAN DER AUWERA  
Peter A.R. VAN ROMPU  
Kurt PYNAERT  
Daniel A.C. VERLY  
Gilbert A.F. VAN CAMPENHOUT  
Richard H. BAILEY  
Robert N.L. PESCHI  
Dirk M.J. VAN AKEN  
Emmanuel F. BOROWSKI  
Peter P.F. REUSENS  
Herman L.R. VERBUEKEN  
Frank RYCKEBUSCH  
Koen A.G. DE WULF

Address this set of forms in its entirety to the Center for Company formalities (CCF); the forms are indissociable except in particular cases provided for by decree n° 81-257 of 18 March 1981  
(refer to the Center for Company Formalities)

M2 CERFA form No 90-0195

Date declaration submitted to the CCF:

## DECLARATION OF A MODIFICATION

- of the **UNDERTAKING**: IDENTIFICATION  CHARACTERISTICS   
DIRECTORS  CHANGE OF REGISTERED OFFICE  WINDING UP
- of the **ESTABLISHMENT**: OPENING  IDENTIFICATION   
(including TRANSFER)  
 DIRECTORS  ACTIVITIES  CLOSURE
- **other modifications** (to be specified, where applicable):  
**MODIFICATION OF THE CAPITAL AND OF THE COMPANY NAME**

Decree n° 81-257 of 18 March 1981 as amended creating the Center for Company Formalities

### MAIN REGISTRATION NUMBER (S)

RCS: PARIS 542 019 096

RM: 20 k Bis in all.

Trade and companies register:

SIREN: Register of professions:

### BODIES CORPORATE

Box reserved for use by the CCF  
(illegible)

Stamp of the  
Paris Trade Court  
5HB 1909 55243

M G U I D A B E F H J K T

Company documents adjoined: Insertions adjoined:

WHATEVER THE FORMALITY CONCERNED, ITEMS ON A RED BACKGROUND MUST BE FILLED IN, AND IF THE MODIFICATION RELATES TO AN ESTABLISHMENT, ITEMS ON A BLACK BACKGROUND MUST ALSO BE FILLED IN.

(1)

**IDENTIFICATION**/Where applicable NEW IDENTIFICATION on 1 Sept 1998

Name: ALCATEL

Initials:

Registered Office (or in case of transfer, new registered office):  
ADDRESS and where appropriate, the identity of the paying agent  
(surname, forenames, or company name):

54, rue La Boétie, 75008 PARIS

SIRET N°: 542 019 096 00016

(1bis)

**OLD IDENTIFICATION** if changed

Name: ALCATEL ALSTHOM COMPAGNIE GENERALE  
D'ELECTRICITE

Initials:

---

(2)

Legal Form: SOCIETE ANONYME (a form of joint stock company)

Main activities of the undertaking: Holding company.

Date Modified:

Number of employees of the business on the day of the formality:

35

---

(3)

COMMERCIAL NAME:

CAPITAL: 7 947 249 840 francs or foreign currency

if the company has variable capital,

minimum capital: francs or foreign currency

Date Modified: 7 September 1998

Duration of the Body Corporate: years;

for a company required to publish annual accounts, END OF COMPANY FINANCIAL YEAR:

---

(4)

DIRECTORS, AUDITORS AND CONTROLLERS of a body corporate and PARTNERS fully and jointly responsible for company debts, MEMBERS of the GIE, LIQUIDATORS. Where applicable for the establishment described above, Person(s) having the power to engage the company by their signature (AUTHORIZED REPRESENTATIVES), INDIVIDUAL PROPRIETORS OF THE FUNDS

Surname: Mr TCHURUK

Born:

Forenames: Serge

Department:

or Company Name:

At:

Position: Chairman

Nationality:

of the  
Board of Directors

Change?

Unchanged

Date of Modification:

Address:

Surname:

Born:

Forenames:

Department:

or Company Name:

At:

Position:

Nationality:

Change?

Date of Modification:

Address:

Surname:

Born:

Forenames:

Department:

or Company Name:

At:

Position:

Nationality:

Change?

Date of Modification:

Address:

Is this list continued on a separate sheet? Yes  No

---

*Stamp of the Paris Trade Court  
Filing No. 49827  
18 September 1998  
49824*

---

(5)

In the event of **WINDING UP**: is the company continuing to operate for the purpose of liquidation? YES  NO   
In the DIRECTORS box, specify the references of liquidator(s). Give the title and the date of the legal announcement journal in which the nomination of the liquidators is/are published:

---

(6)

In the event of the **REGISTERED OFFICE** being **TRANSFERRED** to the jurisdiction of "another" Trade Court, specify the REGISTRARS with whom any secondary registrations have been made:.....

Is this list continued on a separate sheet? Yes  No

---

(7)

In the event of a **MODIFICATION** of **CAPITAL** due to a **MERGER**  or to a **SPLIT** , specify the bodies corporate that participated in the operation (Names, legal form, registered office, RCS N°):  
Is this list continued on a separate sheet? Yes  No

---

(8)

---

(8bis)

---

IF THIS FORMALITY CONCERN AN ESTABLISHMENT, THEN ITEMS ON A BLACK BACKGROUND MUST BE FILLED-IN

---

(9)

ESTABLISHMENT CONCERNED/ and where applicable,  
NEW IDENTIFICATION on:

ADDRESS: - if different from address of registered office (or of MAIN ESTABLISHMENT if the same as registered office), or new address in the event of a transfer:

SIRET No.

---

(9bis)

OLD ESTABLISHMENT in the event of a transfer:

OLD ADDRESS if changed by decision of the local Council:

ADDRESS:

in the event of a **TRANSFER** of the **REGISTERED OFFICE** or of an ESTABLISHMENT, SIRET No.:

If there are no longer any employees, date:

Is activity being maintained at the old registered office?

Yes  No

*Stamp of the  
Paris Trade Court*

---

(10)

So far as the enterprise is concerned, this establishment is:

CATEGORY (IES):  new  modified  terminated  
 registered office

|\_| main establishment |\_| secondary establishment

**TRADING STYLE** (where applicable):

## ANALYSIS OF THE MODIFICATION THAT HAS TAKEN PLACE

(11)

In the event of an establishment being OPENED, of a MODIFICATION IN ITS MODE OF WORKING, or of ADDITIONAL ACTIVITY, state: date:  
and ORIGIN:

—	creation	—	transfer of activity
—	purchase	—	investment
—	take over after leasing the business	—	taking on a business lease
—		—	other (specify) .

Identity of PREVIOUS OPERATOR:

(surname, forenames, or company name)

RCS or SIREN No.:

Where applicable, date on which the Trade Register (RCS) entry of previous operator was deleted or modified:

(may be filled-in by the Registrar)

In the event of PROPERTY being ACQUIRED (By PURCHASE or by INVESTMENT) state the title and the date of the legal announcement journal in which the assignment was published:

In the event of a BUSINESS LEASE BEING TAKEN ON, state duration of  
the contract: from \_\_\_\_\_ to \_\_\_\_\_

and whether it is renewable tacitly: | | yes | | no

Identity of LESSOR of PROPERTY: surname, forenames, address or company name, registered office

(12)

In the event of an establishment being CLOSED, of a MODIFICATION IN ITS MODE OF WORKING, or of ACTIVITY CEASING, state: date:

and DESTINATION:

|\_ disappearance

sale

- taken back by owner

other (specify)

transfer of activity

investment

- leased as a business

**Identity of BENEFICIARY:**

surname, forenames, address or company name registered office:

(13)

ACTIVITIES CARRIED OUT in said establishment on the date of this formality: (to be filled-in only if the establishment is new or if its activities have been modified).

permanent       seasonal       itinerant  
following work:  
 beginning       being modified       ending

---

(14)

MAIN ACTIVITY:

SECONDARY ACTIVITIES:

(15)

(16)

(17)

Any observations by the declarer, or any other modification(s) :  
date of the modification:

*Capital increased to the sum of 7 167 058 840 frs (27 August 1998) then to the sum of 7 947 249 840 (7 September 1998) - deletion of the company name.*

---

(18)

PERMANENT ADDRESS (for correspondence) :

54 rue La Boétie, 75008 PARIS

Tel No:

(19)

THE UNDERSIGNED: (family name, customary name, forenames, and if a representative, also specify status and address):  
*LA LOI () 60, Quai des orfèvres, 75001 PARIS - MC/N904.685*

requests that this document shall constitute a request

for an ENTRY in the: RCS , RM , RSAC , REBA ,

or for a CANCELLATION in the: RCS , RM , RSAC , REBA ,

and a declaration to the Tax Authorities, to the Social Security Bodies, to the Statistical Institute and, if ceasing to be an employer, to the Work Inspectorate and to the Unemployment Authorities.

Done at:

on: 14 September 1998

Signature: (signature)

---

This side for use by the Court Registrar only.

Registrar of the court at:

Registrar code:

Reference number:

RCS Register number:

Name:

Initials:

---

C O M P A N I E S      A N D      T R A D E      R E G I S T E R

---

————— BODY CORPORATE ————

Registration: Primary            Inscription: Addition   
Secondary            Modified

Correction:     

Deletion:     

Date of arrival at Registrar's office:

Serial number in Registrar's office:

---

N O T E S

The Registrar and The National Institute for Industrial Property are the only parties authorized to deliver copies or extracts of the information which appears in the Companies and Trade Register, or of the Deeds which are filed in conjunction therewith, except struck off registrations which are communicated in the conditions set by the decree (of 24 September 1984) according to article 88 (decree n° 84-406 of 30 May 1984, Art 67).

---

Documentary Proofs:

Regulated activities: (Proof n° 24)

Date statutes filed:

Remarks by the Registrar:

The undersigned Registrar has verified that the accompanying declarations are in conformity with the proofs provided in application of the Rules, and has consequently proceeded with the above-indicated inscription:

Inscription dated:

Certified by the Registrar:

Stamp of the  
Paris Trade Court  
dated 18 September 1998

Box reserved for the National Companies and Trade Register

CHAMBER OF PROFESSIONS

IN:

This side reserved for use by the Chamber of Professions.

Management No.

Entry No. in RM

SIREN NO.

NAME

---

R E G I S T E R   O F   P R O F E S S I O N S

---

- Request for Entry
  - Record spouse as collaborator (Not bodies corporate)
  - Declaration of a modification
  - Request to be deleted
  - Request for mention of spouse to be deleted (Not bodies corporate)
- 

INITIATION COURSE ON MANAGEMENT

(Article 2 of the Law of 23 December 1982)

Attestation issued on:

Exemption - Reason for exemption

Documentary evidence:

In the event of a DECISION of the PRESIDENT OF THE CHAMBER OF PROFESSIONS (Article 11 of the Decree of 10 June 1983)

Date request filed:

Request for additional information:

Requested information provided:

Deadline date on President's decision:

PRESIDENT's DECISION:

report No.:

date:

Accepted

rejected

in the event of coming before the COMMISSION OF THE REGISTER OF PROFESSIONS (Articles 12 and 13 of the Decree of 10 June 1983)

Date of transmission to the Commission:

Date of Notification:

Payment of subscription (in FF)

Cash     Bank Cheque     Postal Cheque

Reference in Counterfoil Register

Publication from:

to:

Conformity of the accompanying declarations and the proofs provided in application of the Rules has been verified under our responsibility:

DATE OF ENTRY:

The President of the Chamber of Professions:

Box reserved for the National Companies and Trade Register

Practitioner's Docket No. \_\_\_\_\_

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Application No.: 0 /

Group No.:

Filed:

Examiner

For:

Assistant Commissioner for Patents  
Washington, D.C. 20231

STATEMENT OF ACCURACY OF TRANSLATION  
(37 C.F.R. §§ 1.52(d), 1.55(a), 1.69)

I, the below named translator, hereby state:

My name and post office address are as stated below:

That I am knowledgeable in the English language and in the language of the

- attached document  
 below identified document

and I believe the attached English translation to be a true and complete translation of this document.

*(Identify attached or previously filed document)*

The document for which the attached English translation is being submitted is

Declaration of a Modification (Change of Name)

from Alcatel Alsthom Compagnie Generale d'Electricite to ALCATEL  
as filed in Paris Trade Court on 18 September 1998, Filing No. 49827.

Full name of the translator

Andrew Scott Marland

*6 April 1999*

Date:

Signature of the translator

*A. Marland*

Post Office Address

**A.S. Marland**  
**35, av. Chevreul**  
**92270 BOIS COLOMBES**

*France*

(A)

- For NEW or MAINTAINED, in the event of transfer of registered office to another registrar or another chamber of professions, state.

INDIVIDUALS (except liquidators): Date and place of birth, nationality and if director or partner is foreign: state references of residence permit or trading permit; for married partners, state date and place of marriage, type of marriage contract and any clauses applicable to third parties; for each member of the GIE, give the RCS and/or RM n°, and if they have married, name of spouse, date and place of marriage, type of marriage contract and any clauses applicable to third parties. In the case of a MANAGER and/or major partners of SARL, SCN or SCS in particular, attach a TNS document.

BODY CORPORATE: State legal name and forenames of the permanent secretary: For each member of the GIE give RCS and/or RM N°.

- For LEAVING: For a MANAGER or a major partner of SARL, SNC or SCS, state their date of birth.

List of Inventors

Richard M. Czerwiec  
Joseph E. Sutherland  
Peter M. L. Schepers  
Geert A. E. Van Wonterghem  
Eduard C. M. Boeykens  
Chris Van Der Auwera  
Peter A. R. Van Rompu  
Kurt Pynaert  
Daniel A. C. Verly  
Gilbert A. F. Van Campenhout  
Richard H. Bailey  
Marlin V. Simmering